

E2 example, a nucleic acid fragment encoding a biologically active portion of LIG46 includes a galactosyltransferase-like domain.

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Please replace the paragraph beginning at page 25, line 30, with the following rewritten paragraph:

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E3 A nucleic acid fragment encoding a "biologically active portion of LIG56" can be prepared by isolating a portion of SEQ ID NO:5 or SEQ ID NO:7 which encodes a polypeptide having a LIG56 biological activity, expressing the encoded portion of LIG56 protein (e.g., by recombinant expression *in vitro*) and assessing the activity of the encoded portion of LIG56. For example, a nucleic acid fragment encoding a biologically active portion of LIG56 includes a GTP binding protein-like domain.

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Please replace the paragraph beginning at page 99, line 12, with the following rewritten paragraph:

For this study, a phosphothioate-protected antisense oligodeoxynucleotide and its respective control sequence (sense) were synthesized. The antisense oligodeoxynucleotide targets the LIG46 start codon mRNA at position 39.

Antisense: 5' CTT CGA CGC CCC ACA CTC AT 3' (SEQ ID NO:16)

E Sense: 5' ATG AGT GTG GGG CGT CGA AG 3' (SEQ ID NO:17)

Male lean C57BL/6J (24 g) mice were individually housed in macrolon cages (22 ± 2° C; 12:12 h light/dark cycle with lights off at 6 pm). Tap water and mouse chow diet were given *ad libitum*.

Mice were stereotactically implanted with a chronic guide cannula aimed to the third ventricle (intracerebroventricular) one week prior to this experiment.